

Title (en)  
ELECTRICAL ROTATING CUTTING INSTRUMENTS AND SYSTEMS

Title (de)  
ELEKTRISCHE ROTIERENDE SCHNEIDINSTRUMENTE UND SYSTEME

Title (fr)  
SYSTÈMES ET INSTRUMENTS ROTATIFS DE COUPE ÉLECTRIQUES

Publication  
**EP 4346644 A1 20240410 (EN)**

Application  
**EP 22735623 A 20220602**

Priority

- US 202163196049 P 20210602
- US 202163208619 P 20210609
- IL 2022050585 W 20220602

Abstract (en)  
[origin: WO2022254440A1] A rotating cutting instrument (20) is provided that includes a proximal electrically- conductive shank (24), configured to receive torque. An electrically-conductive outer electrode (26) includes an electrically-conductive distal end portion (28) that is shaped so as to penetrate tissue when rotated, and is in electrical contact with the proximal electrically-conductive shank (24). An electrically-conductive inner electrode (30) has a proximal end portion (32). An electrical isolation layer (34) is disposed between the electrically-conductive outer electrode (26) and the electrically-conductive inner electrode (30), so as to electrically isolate the electrically-conductive outer electrode (26) and the electrically-conductive inner electrode (30) from each other. Other embodiments are also described.

IPC 8 full level  
**A61B 17/16** (2006.01); **A61C 3/02** (2006.01)

CPC (source: EP KR US)  
**A61B 17/1615** (2013.01 - EP KR); **A61C 3/02** (2013.01 - KR US); **A61C 3/04** (2013.01 - US); **A61C 5/42** (2017.02 - EP KR); **A61C 5/44** (2017.02 - EP KR); **A61B 17/1624** (2013.01 - EP); **A61B 17/1626** (2013.01 - EP); **A61B 17/1628** (2013.01 - EP); **A61B 90/06** (2016.02 - EP); **A61B 2017/00026** (2013.01 - EP KR); **A61B 2017/00039** (2013.01 - EP KR); **A61B 2017/00221** (2013.01 - EP KR); **A61B 2017/00929** (2013.01 - EP KR)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2022254440 A1 20221208**; BR 112023025312 A2 20240227; EP 4346644 A1 20240410; JP 2024520162 A 20240521; KR 20240113386 A 20240722; US 2024268925 A1 20240815

DOCDB simple family (application)  
**IL 2022050585 W 20220602**; BR 112023025312 A 20220602; EP 22735623 A 20220602; JP 2023574876 A 20220602; KR 20237045485 A 20220602; US 202318518428 A 20231122